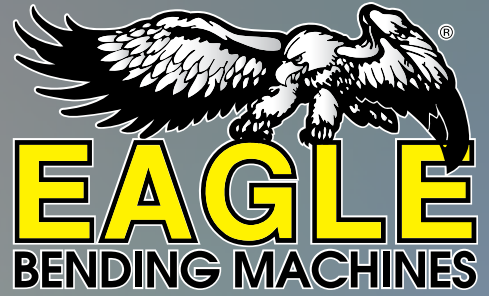
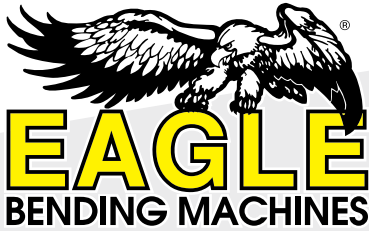


*Superior Solutions  
thru Innovative Engineering*



[www.eaglebendingmachines.com](http://www.eaglebendingmachines.com)



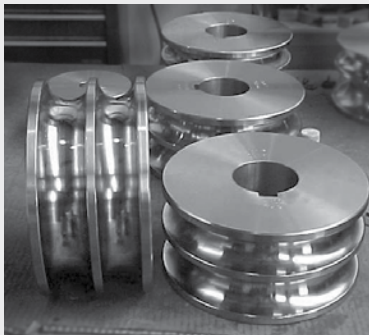


## TRUE QUALITY IS FOUND IN THE DETAILS...

### WHY BUY EAGLE?...

Eagle Bending Machines was founded over 30 years ago to provide a **Higher Quality Roll Bender, Faster Deliveries and Superior Service**, Eagle proudly maintains its goals. Eagle is 100% American owned and has placed over 8,000 machines in North America. **PROOF** that our Section Bending Rolls, Profile Benders, CNC Benders and Service are truly valued by the metal fabrication industry. Our section Benders incorporate Features and Superior Quality not found on look-a-like machines. Contact us to discover why

**EAGLE Benders provide you years of Profit Producing Performance!**



## EAGLE BENDING MACHINE PRODUCTS

- 01 INDEX
- 02 CP20 Series Section Benders
- 03 CP30 Series Section Benders
- 04 CP40 Series Section Benders
- 05 CP60 Series Section Benders
- 06 BA Series Section Benders
- 07 CPS Series Section Benders
- 08 Z402 Series Section Benders
- 09 Specifications Chart
- 10 Tooling Options
- 11 Tooling Options

### More Value Added Services from Eagle Bending Machines

Demonstration & Showroom • Testing & Prototype Facility  
 Tooling Design & Manufacturing • Technical Assistance  
 Machine Diagnostics & Repair • Process Flow Design • OEM Parts  
 Dedicated Machine Applications • Extrusion Die Consulting

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*Proud supporters of:*



### EAGLE BENDING MACHINES INC.

P.O. BOX 99, 34225 Hwy. 31  
 STAPLETON, AL 36578-0099, U.S.A.  
 TEL: 251-937-0947 / FAX: 251-937-4742

Rev 04.20.2023



The Name Brand that Sets the Standards

# CP20 SERIES

## Powerful, Versatile, & Portable

Our Eagle CP20 is a 3 roll Pyramid Type, Portable Bench Top, Universal Roll Bending Machine that allows you to roll small to tight profiles as well as large bending diameters with

### Renowned Eagle Quality and Durability

The CP20 has more standard features than any machine this size. They are complete with LED Digital Readouts, Powered Roll Rotation, Universal Tooling Set Lateral Material Guides, Overload Protection and More!

Roll standard/special profiles plus tube/pipe of reduced dimensions in mild-structural-stainless steels, aluminum, brass, copper and other material types.

CP20's are furnished with a Universal Tooling set of 18 components. Driven lower rolls are knurled for optimum traction.

Standard Tooling bends flat bar (bent on flat and on the edge), square/round bar, T's, C's and square tube & rectangular tube. Round tube & pipe and other profiles or extrusions require our optional tooling.



## CP20 CAPACITIES

Based on Mild Steels

| SHAPE | MAX SIZE/MIN ID       | NOTES            |
|-------|-----------------------|------------------|
|       | 1" x 1/4" Ø8"         | Standard Rolls * |
|       | 1 3/4" x 3/8" Ø12"    | Standard Rolls   |
|       | 1/2" Ø6"              | Standard Rolls * |
|       | 3/4" x 1/8" Ø8"       | Optional Rolls * |
|       | 3/4" x 1/8" Ø10"      | Optional Rolls   |
|       | 1" Ø8"                | Standard Rolls   |
|       | 1" Ø10"               | Standard Rolls   |
|       | 1 1/4" x Ø10"         | Standard Rolls * |
|       | 1 1/4" x Ø12"         | Standard Rolls * |
|       | 1/2" Ø5"              | Optional Rolls   |
|       | 1/2" Ø14"             | Optional Rolls   |
|       | 1 1/2" Ø16"           | Optional Rolls   |
|       | 3/4" x 1/16" Ø12"     | Standard Rolls   |
|       | 1 1/4" x 3/8" x 1/16" | Standard Rolls   |

\* On some sections for limited quantities it may be possible to use standard rolls. For optimum results or if production runs are required, it is necessary to use optional rolls and or optional accessories.

## STANDARD FEATURES & EQUIPMENT

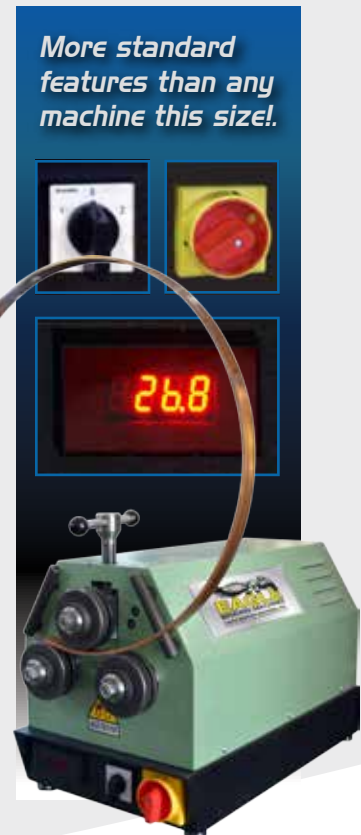
- 3 Roll Universal Bender w/ bench mountable position
- Rugged Steel Frame, normalized, produced on CNC machining centers
- Shafts in High Strength Steel, heat treated, journaled in roller bearings
- Electronic LED Digital Display makes accurate repetitive parts easy
- Universal rolls, hardened alloy steel 55 HRC, bend most standard sections
- Oil Bath Speed Reducer powered by 220V-3-60Hz bi-directional TEFC motor
- Forming roll journal moves on Hardened Slide-Ways with Adjustable Gibbs
- Lateral Material Guides, adjust to create spiral pitch or correct twist on difficult jobs, guides rotate inwards for contact when rolling tight diameters
- Controls in 24-VAC Low Voltage, complete with overload protection
- Illustrated instruction manual, English (Spanish upon request)

## OPTIONS/ACCESSORIES

- Rolls for round tube/pipe, Cap Rail, Angles, Wide Flats
- Tight Diam. Rolls • Base Stand • Custom Tooling

## SPECIFICATIONS

Positioning Manual  
 Repeat Ref. LED Readout  
 Shaft Dia. 3/4" (20mm)  
 Roll Dia. 3-1/4"  
 Speed 9 fpm  
 Power 0.44 HP  
 Dimensions 26"x15"x25"  
 Weight 160 lbs

















More standard features than any machine this size!



# Simply the Best Benders

## CP30 CAPACITIES Based on Mild Steels

| SHAPE   | MAX SIZE/MIN ID      | NOTES            |
|---|----------------------|------------------|
|  | 2" x 3/8" Ø16"       | Standard Rolls   |
|  | 3" x 5/8" Ø16"       | Standard Rolls   |
|  | 1-1/8" Ø24"          | Standard Rolls   |
|  | 1 1/2 x 3/16" Ø16"   | Optional Rolls*  |
|  | 1 1/2 x 3/16" Ø22"   | Optional Tooling |
|  | 2" Ø16"              | Standard Rolls   |
|  | 2" Ø20"              | Standard Rolls   |
|  | 2" x 1" Ø12"         | Standard Rolls   |
|  | 2" x 1" Ø16"         | Standard Rolls   |
|  | 1 1/4" Ø24"          | Optional Rolls   |
|  | 1 1/2" Std.40 Ø20"   | Optional Rolls   |
|  | 2-3/8" x 16GA Ø40"   | Optional Rolls   |
|  | 1 1/2" x 11GA Ø40"   | Standard Rolls†  |
|  | 2" x 1" x 11 GA Ø48" | Standard Rolls†  |

\*On some sections for limited quantities it may be possible to use standard rolls. For optimum results or if production runs are required, it is necessary to use optional rolls and or optional accessories.



CP30R2V



CP30R2V  
Shown in horizontal position



CP30-E-PR



Large Bright LED Readouts for Precision Repeat



Easy Ratchet Lateral Guide Adjustment

## 5 Versions to Fit Your Budget

**CP30-PR2V & CP30-PRM**  
Foot Pedal Controls, Rotating Head, horizontal/vertical operation  
LED Readout

**CP30-MS**  
Short Base version for use on trailer, tail gate, work bench  
LED Readout

**\*CP30E-PR & CP30E-RPM**  
Foot Pedal Controls, Rotary Head w/out LED



Disclaimer: Roll bending machines distributed by Eagle Bending Machines, Inc. are all designed with Emergency Stops and Thermal Overloads. The employer of the operator is responsible for providing and insuring the usage of point of operation guards and/or properly applied and adjusted point of operation devices as required to meet OSHA, state and local safety requirements.



## CP30 SERIES

### STANDARD FEATURES ALL UNITS

- LED Digital Readout\*
- Three Roll Universal Benders
- 25% Heavier Main Frames in Solid Steel w/limited lifetime warranty
- High Strength Hardened Steel Shafts
- TEFC Electric Motors, CE Certified
- Lower Shafts Driven, Top Shaft Idle
- Universal Roll Set, Hardened, 24 pieces
- Lower Rolls Knurled, Top Roll Smooth
- Thermal Overload Protection & E-stops
- Lateral Material Guides w/ bearings, variable rake angle, & recessed hex adjustment. These features not on 'look-alike' machines
- Flush Faced Frame and Electrical Cabinet
- Dual, High Dynamic Load Bearings on shafts
- Top Roll Journal on Adjustable Guides & Ways
- Illustrated User Manual & Tool Kit

### OPTIONS / ACCESSORIES

- Tube & Pipe Rolls
- Wide Flat & Tight Diameter Rolls
- Rolls & Guides for Angle In/Out
- Bar Twist & Scroll Tooling
- CAP RAIL ROLLS
- Rolls for Extrusions/Other Shapes

### MODEL LEGEND

M 1 Speed, 220V, Single Phase  
 2V 2 Speed, 220V, Three Phase  
 P Foot Pedal Rotation Control  
 R Rotating Horizontal/Vertical  
 E\* 1 Speed, w/out LED

### SPECIFICATIONS

Shaft OD : 1-3/16" (30 mm)  
 Roll OD : 5" Nominal (128 mm)  
 Power : 1.15 HP 220V-3-60Hz  
 Power : 1.50 HP 220V-1-60Hz  
 Weight : 550 Lbs, approx.

# CP40H-H2-M SERIES

## CP40 FEATURES AND BENEFITS

- 3 Roll Pyramid Universal Roll Bender
- DP7 Programmable Control, Digital Radius Readout Capability, 400 Auto Repeat Memory (H/H2), LED Readout (M)
- Powerful Easy to use Pyramid Style
- High Strength Hardened Shafts
- 25% Heavier Main Frames in Solid Steel with Limited Lifetime Warranty
- Universal Bending Roll Set 18 pcs.
- All Dual Bearings, No Bushings
- Flush Electrical Panels, NEMA Type
- Detached Mobile Operator Consoles
- Dual Pedal Controlled Rotation
- Dual E-Stop Buttons
- Lateral Guides with Bearings, Variable Angle, Heavy Duty with Easy, Hex Ratchet Adjustments on Thrust
- TEFC Motors, Overload Protected

## OPTIONS / ACCESSORIES

- Tube & Pipe Rolls
- Wide Flat & Tight Diameter Rolls
- Rolls & Guides for Angle In/Out
- Bar Twisting & Scrolling Tools
- Rolls for Extrusions & Other Shapes CAP RAIL ROLLS















## NO CASTINGS in our Machines!

## SPECIFICATIONS

Shaft OD 1.575" (40 mm)  
 Roll OD 6.375" (162 mm)  
 Power: 3.6 HP (H & H2)  
 Weight: H-H2 1,300 Lbs  
 Weight: M 1,050 Lbs



## CP40 CAPACITIES Based on Mild Steels

| SHAPE   | MAX SIZE/MIN ID              | NOTES             |
|---|------------------------------|-------------------|
|  | 2 1/4" x 3/8" Ø20"           | Standard Rolls    |
|  | 4" x 5/8" Ø16"               | Standard Rolls    |
|  | 1-3/8" Ø20"                  | Standard Rolls    |
|  | 2" x 1/4" Ø24"               | Special Rolls     |
|  | 2" x 1/4" Ø28"               | Optional Tooling  |
|  | 2 1/2" x 1/4" Ø24"           | Standard Rolls *  |
|  | 2" x 1/4" Ø24"               | Standard Rolls    |
|  | 3" x 1 3/4" Ø24"             | Standard Rolls    |
|  | 3" x 1 3/4" Ø24"             | Standard Rolls    |
|  | 1-3/8" Ø20"                  | Optional Rolls *  |
|  | 2" Scd.40 Ø40"               | Tube/Pipe Rolls   |
|  | 2 3/4" x 16GA Ø48"           | Tube/Pipe Rolls * |
|  | 2" x 1 1GA Ø48"              | Standard Rolls *  |
|  | 2 1/4" x 1 1/2" x 11 GA Ø48" | Standard Rolls    |

On some sections for limited quantities it may be possible to use standard rolls. For optimum results or if production runs are required, it is necessary to use optional rolls and/or optional accessories.

## 4 Versions Fit Your Budget!

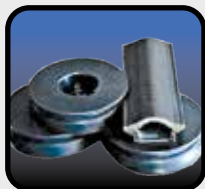
**CP40H - Hydraulic Adjustment**  
 3 Driven Rolls, Smooth, Auto Repeat Positioning/LED

**CP40H-REV - Hydraulic Adjustment**  
 CP40H including Variable Speed Drive Via Digital Motor Inverter

**CP40H2 - Hydraulic Adjustment**  
 2 Driven Rolls, Lower Rolls Knurled for Traction, Top Roll Smooth with Auto Repeat Positioning/LED

**CP40M - Manual Adjustment**  
 2 Driven Rolls, Lower Rolls Knurled for Traction, Top Roll Smooth with LED Readout for positioning

Disclaimer: Roll bending machines distributed by Eagle Bending Machines, Inc. are all designed with Emergency Stops and Thermal Overloads. The employer of the operator is responsible for providing and insuring the usage of point of operation guards and/or properly applied and adjusted point of operation devices as required to meet OSHA, state and local safety requirements.





# Simply the Best Benders

## CP60 CAPACITIES Based on Mild Steels

| SHAPE | MAX SIZE/MIN ID      | NOTES            |
|-------|----------------------|------------------|
|       | 3½" x 5/8" Ø36"      | Standard Rolls   |
|       | 5" x 1" Ø26"         | Standard Rolls   |
|       | 2" Ø30"              | Standard Rolls   |
|       | 3" x ¼" Ø48"         | Special Tooling  |
|       | 2½" x 5/16" Ø32"     | Optional Tooling |
|       | 3" x 5/16" Ø32"      | Special Tooling* |
|       | 3" x 5/16" Ø40"      | Standard Rolls * |
|       | 5" x 2" Ø32"         | Standard Rolls   |
|       | 5" x 2" Ø36"         | Standard Rolls   |
|       | 2" Ø28"              | Rod Rolls        |
|       | 2½" x Sch40 Ø36"     | Tube/Pipe Rolls  |
|       | 3½" x 12GA Ø60"      | Optional Rolls * |
|       | 2¾" x 11GA Ø48"      | Standard Rolls   |
|       | 3" x 1½" x 1/8" Ø40" | Standard Rolls   |

\* On some sections for limited quantities it may be possible to use standard rolls. For optimum results or if production runs are required, it is necessary to use optional rolls and/or optional accessories.



CP60H

## CP60-H Features and Benefits

- 3 Roll Pyramid Universal Roll Bender
- DP7 Programmable Control, Digital Radius Readout Capability, 400 Auto Repeat Memory
- Powerful Easy to use Pyramid Style
- High Strength Hardened Shafts
- 25% Heavier Main Frames in Solid Steel w/ Limited Lifetime Warranty
- Universal Bending Roll Set 18 pcs.
- All Dual Bearings, No Bushings
- Flush Electrical Panels, NEMA Type
- Detached Mobile Operator Consoles
- Dual Pedal Controlled Rotation
- Dual E-Stop Buttons
- Lateral Guides w/ Bearings, Variable Angle, Heavy Duty with Easy, Hex Ratchet Adjustments on Thrust
- TEFC Motors, Overload Protected
- Illustrated Instruction Manual & Tool Kit

### 2 Versatile Versions

**(H & REV)** allow you to Roll with Renowned Eagle Quality and choose the best fit to your budget.

**Eagle CP60H Universal Section Benders** offer unmatched features such as 400 Position Auto-Repeat Controls, LED Readouts, Concealed Oil Lines, Flush Electrical Cabinets, Limited LifetimeFrame Warranties and more!

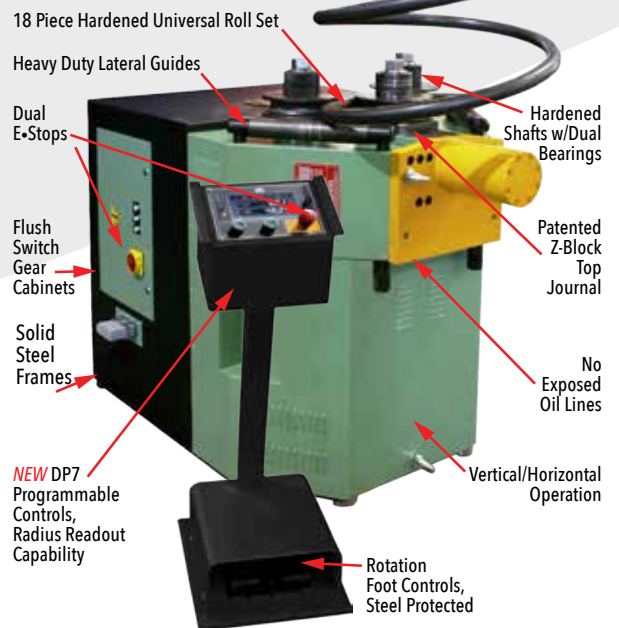
**Make the Best Decision for your Shop!**

### CP60H / CP60H-Rev SPECIFICATIONS

Shaft OD 2-3/8" (60 mm)  
 Roll OD 8.85" Nominal  
 Drive 3.4 HP 220V/60Hz  
 Pump 2.0 HP 220V/60Hz  
 Repeat Automatic + LED.  
 Powered Rolls 2 Lower Rolls Driven  
 Dimensions 37" x 51" x 63" h  
 Ship Weight 2,425 Lbs, approx.



### Eagle Quality is in the Details...



# BA SERIES CNC



**BA55**

## FEATURES

- (Full PC/Windows Based CNC Controls)
- Exclusive BPR Direct Radius "PRO-Bending" Program
- Direct Radius Input & On-Board CAD Graphics allow the operator to visualize and edit shapes on screen
- Automatic Interpolation-Blending between bends speeds up and simplifies programming
- Standard Shape program Archive of most common shapes
- Servo Controlled Bending Roll Movement offers Industries Highest Level of Material Variance Control & Bending Precision
- Large Full Color Graphic Screen Interface
- Unlimited Program Memory, Hard Drive + USB Port
- RS-232 Serial Port enables use of external Lap-Top
- Automatic Interpolation/Blending & Mirror Imaging Functions
- Variable Speed Rotation & Rise/Decent of Bending Roll
- Air Oil Heat Exchanger Maintains Oil at Constant Temp.  
Note: BA Units Require Dedicated Rolls (Optional)

## OPTIONS/ACCESSORIES

- Rolls for Tube-Pipe, Round and Square
- Custom Rolls for Extrusions & Special Sections
- Special Voltages Upon Request

## STANDARD EQUIPMENT

- Adjustable Lateral Material Guides
- Service Tools + Illustrated Manual



**BA35**

















**BA20**

Roll bending machines distributed by Eagle Bending Machines Inc. are designed and manufactured to comply with ANSI B11.12, 1996 standards. The employer of the operator is responsible for providing and insuring the usage of point of operation guards and/or properly applied and adjusted point of operation devices as required to meet OSHA, state and local safety requirements.

## BA CAPACITIES Based on Mild Steels

Maximum Size & Minimum I.D.

| SHAPE   | 20                 | 35                | 40                 | 50                  | 55                |
|---|--------------------|-------------------|--------------------|---------------------|-------------------|
|  | 1 x 1/4 Ø8"        | 2 x 3/8 Ø14"      | 2 1/4 x 3/8 Ø20"   | 2 3/4 x 1/2 Ø20"    | 2 3/4 x 5/8 Ø32"  |
|  | 1 3/4 x 3/8 Ø12"   | 3 1/2 x 5/8 Ø16"  | 4 x 5/8 Ø16"       | 4 x 5/8 Ø14"        | 4 x 5/8 Ø16"      |
|  | 1/2 Ø5"            | 1 1/4 Ø16"        | 1-3/8 Ø20"         | 1 1/2 Ø24"          | 1 3/4 Ø24"        |
|  | 3/4 x 3/16 Ø8"     | 1 1/2 x 1/4 Ø16"  | 2 x 1/4 Ø24"       | 2 1/4 x 1/4 Ø30"    | 2 1/4 x 1/4 Ø30"  |
|  | 3/4 x 3/16 Ø10"    | 1 1/2 x 1/4 Ø22"  | 2 x 1/4 Ø28"       | 2 1/4 x 1/4 Ø38"    | 2 1/4 x 1/4 Ø38"  |
|  | 1 Ø6"              | 2 Ø14"            | 2 1/2 Ø24"         | 2 1/2 Ø20"          | 2 1/2 Ø20"        |
|  | 1 Ø6"              | 2 Ø16"            | 2 Ø24"             | 2 1/2 Ø20"          | 2 1/2 Ø20"        |
|  | 1 1/4 Ø8"          | 2 1/2 Ø18"        | 3 Ø24"             | 3 3/4 Ø26"          | 3 3/4 Ø26"        |
|  | 1 1/4 Ø10"         | 2 1/2 Ø20"        | 3 Ø24"             | 3 3/4 Ø30"          | 3 3/4 Ø30"        |
|  | 1/2 Ø4"            | 1 1/4 Ø16"        | 1-3/8 Ø20"         | 1 1/2 Ø24"          | 1 1/2 Ø24"        |
|  | 1/2 Ø12"           | 1 1/2 Ø20"        | 2 Ø40"             | 2 Ø36"              | 2 Ø36"            |
|  | 1 1/4 x 1/16 Ø16"  | 2 1/2 x 1/16 Ø30" | 2 3/4 x 16GA Ø48"  | 2 1/2 x 10ga Ø34"   | 3 x 10ga Ø48"     |
|  | 3/4 x 1/16 Ø12"    | 1 1/2 x 1/8 Ø40"  | 2 x 11GA Ø48"      | 2 1/4 x 1/8 Ø50"    | 2 1/4 x 11Ga Ø48" |
|  | 1 1/4 x 3/8 x 1/16 | 2 x 1 1/4 x 1/8   | 2 1/4 x 11 GA Ø48" | 2 3/4 x 1 1/2 x 1/8 | 2 3/4 x 9Ga Ø60"  |

\* BA20, BA35, & BA50 Require Dedicated Rolls and standard tooling is not provided.  
BA40 & BA55 Require Dedicated Rolls for high volume work. Standard rolls are included.

|                   |             |              |              |              |              |
|-------------------|-------------|--------------|--------------|--------------|--------------|
| Driven Rolls      | 3           | 3            | 3            | 3            | 3            |
| Rolling Speed fpm | 0-20        | 0-25         | 0-30         | 0-30         | 0-30         |
| Working Plane     | Vertical    | Vert./Horiz. | Vert./Horiz. | Vert./Horiz. | Vert./Horiz. |
| Repeat Control    | Auto-Repeat | Auto-Repeat  | Auto-Repeat  | Auto-Repeat  | Auto-Repeat  |

Chart indicates minimum suggested inside bending diameters at maximum section size using mild steel.  
-Specifications subject to change/modification without prior notice - Data is approximate - Contact your authorized dealer for specific tooling capabilities/requirements on shapes and sizes to be bent. Special rolls and/or tooling may be required for some angle, channel rolling and/or for serial production on some sections - Bending I.D's may be limited by predicted material distortion





# Simply the Best Benders

## CPS CAPACITIES Based on Mild Steels

Maximum Size & Minimum I.D.

| SHAPE | 20                 | 35                | 50                    |
|-------|--------------------|-------------------|-----------------------|
|       | 1 x 1/4 Ø8"        | 2 x 3/8 Ø14"      | 2 3/4 x 1/2 Ø20" *    |
|       | 1 3/4 x 3/8 Ø12"   | 3 1/2 x 5/8 Ø16"  | 4 x 5/8 Ø14" *        |
|       | 1/2 Ø5"            | 1 1/4 Ø16"        | 1 1/2 Ø24"            |
|       | 3/4 x 3/16 Ø8"     | 1 1/2 x 1/4 Ø16"  | 2 1/4 x 1/4 Ø30" *    |
|       | 3/4 x 3/16 Ø10"    | 1 1/2 x 1/4 Ø22"  | 2 1/4 x 1/4 Ø38"      |
|       | 1 Ø6"              | 2 Ø14"            | 2 1/2 Ø20"            |
|       | 1 Ø6"              | 2 Ø16"            | 2 1/2 Ø20"            |
|       | 1 1/4 Ø8"          | 2 1/2 Ø18"        | 3 3/4 Ø26" *          |
|       | 1 1/4 Ø10"         | 2 1/2 Ø20"        | 3 3/4 Ø30" *          |
|       | 1/2 Ø4"            | 1 1/4 Ø16"        | 1 1/2 Ø24"            |
|       | 1/2 Ø12"           | 1 1/2 Ø20"        | 2 Ø36"                |
|       | 1 1/4 x 1/16 Ø16"  | 2 1/2 x 1/16 Ø30" | 2 1/2 x 10GA Ø34" *   |
|       | 3/4 x 1/16 Ø12"    | 1 1/2 x 1/8 Ø40"  | 2 1/4 x 1/8 Ø50" *    |
|       | 1 1/4 x 3/8 x 1/16 | 2 x 1 1/4 x 1/8   | 2 3/4 x 1 1/2 x 1/8 * |

\* On some sections for limited quantities it may be possible to use standard rolls. For optimum results or if production runs are required, it is necessary to use optional rolls and/or optional accessories.

|                   |             |              |              |
|-------------------|-------------|--------------|--------------|
| Driven Rolls      | 3           | 3            | 3            |
| Rolling Speed fpm | 10          | 13           | 16           |
| Working Plane     | Vertical    | Vert./Horiz. | Vert./Horiz. |
| Repeat Control    | Auto-Repeat | Auto-Repeat  | Auto-Repeat  |

Chart indicates minimum suggested inside bending diameters at maximum section size using mild steel - Specifications subject to change/modification without prior notice - Data is approximate - Contact your authorized dealer for specific tooling capabilities/requirements on shapes and sizes to be bent. Special rolls and/or tooling may be required for some angle, channel rolling and/or for serial production on some sections - Bending ID's may be limited by predicted material distortion

## CPS SERIES Universal Section Roll

CPS-50



CPS-35



### FEATURES

- Three Driven Rolls Universal Profile Bender Initial Pinch Geometry for Serial Production
- Hydraulic Up / Down Movement on Forming Roll
- High Strength Hardened Shafts w/Roller Bearings
- Universal Bending Rolls, Smooth, Induction Hardened
- Horizontal & Vertical Working Position (BNCP5 35 & )
- Push Button Controls, Detached Console
- Dual Pedal Controlled Rotation
- Dual E-Stop Buttons
- DP7 Programmable Controls, Digital Radius Readout Capability, 400 Memory Automatic Position Repeat "APR" System
- LED Readout, Large High Brightness, 24VAC Controls
- Flush Mount Switch Gear Panel with Safety Lamps
- Bending Roll Moving on Adjustable, Hardened Gibbs
- Adjustable Lateral Material Guide
- Service Tools and Illustrated Manual

### VERSIONS 20 - 35 - 50

#### CPS (Standard)

Models 20, 35 & 50 with Single Rolling Speed and all Features as listed to the left

#### CPS-REV (Variable Rolling Speed)

CPS Version + Step-less variable speed, digital Inverter and potentiometer for precision bending aluminum extrusions and extreme tight diameters

#### CPS-AUT ( Automatic Bend Execution)

REV Version + Programmable Control and Proximity Sensors to execute a bend in a production environment



CPS-20 H/V



The Name Brand that Sets the Standards

## Z402 SERIES

ZM402 & ZH402 are 3 roll, pyramid type Universal Roll Bending Machines with manually or hydraulically adjusted forming roll. Our units roll standard/special sections & tube/pipe in a variety of material types.

*These machines are Superior in Every Aspect with a Solid Steel MAINFrame! We use no castings in our machines unlike many other look-a likes.*

Our Efficient Pyramid Design uses a wide lower inter-axis and extended forming roll vertical travel to maximize bending power.

**Compare our Superior Warranty to other brands and discover the Eagle difference!**

### CHARACTERISTICS

- 3 Roll Universal Benders w/ Dual Working Positions
- Lower Rolls Powered & Knurled for Optimal Traction
- Top Roll Idle, Adjustable Up/Dn for Bending Radius  
LED Digital Readout monitors top roll position  
Operate Both in Horizontal & Vertical Positions  
Rugged Solid Steel Frames, NO CASTINGS
- All Shafts Rotate on Dual Bearings, NO BUSHINGS
- Top Journal Hardened Guides/Ways - ADJUSTABLE
- Dual Pedal Controlled Rotation
- Dual E-Stop Buttons
- Heavy Duty Adjustable Lateral Guides w/ Bearings
- Compact, Robust, Low Maintenance Pyramid Design

### STANDARD EQUIPMENT

- Universal Rolls, 18 pcs • Palm E-Stop • 24V Controls
- 3 Way Adjustable Lateral Material Guides & LED Readout
- Motor Overload Protection & Magnetic Cut-out

### OPTIONS/ACCESSORIES

- Rolls for round tube/pipe, Cap Rail, Angles, Wide Flats
- Tight Diam. Rolls • Twist & Scroll Tools • Custom Tooling

### SPECIFICATIONS

Positioning Hyd. / Man.  
Repeat Ref. LED Readout  
Shaft Dia. 1.57"  
Roll Dia. 6.38"  
Speed 14.5 fpm  
Power H 2.65/ M 1.75  
Dimensions 32"x54"x57"  
Weight 950/8901bs

### 2 VERSIONS w/ Horiz./Vert. Operation

**ZH402** - Pedal Controls,  
LED Readout, Hydr. Adjust.

**ZM402** - Pedal Controls,  
LED Readout, Man. Adjust.



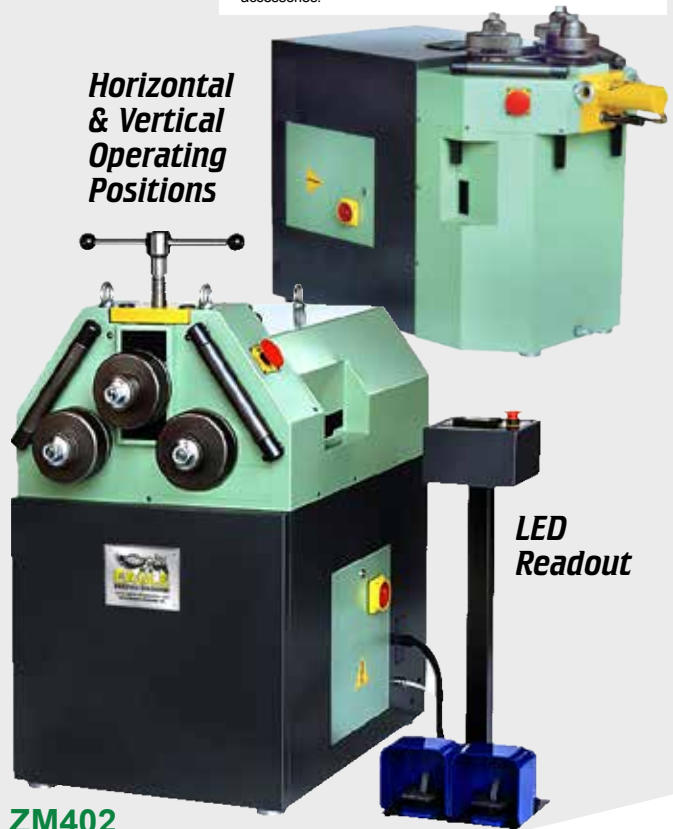
ZH402

### ZH402 CAPACITIES Based on Mild Steels

| SHAPE | MAX SIZE/MIN ID              | NOTES            |
|-------|------------------------------|------------------|
|       | 2 1/4" x 3/8" Ø24"           | Standard Rolls   |
|       | 4" x 9/16" Ø16"              | Standard Rolls   |
|       | 1-3/8" Ø26"                  | Standard Rolls   |
|       | 2" x 2 x 3/16" Ø28"          | Special Rolls    |
|       | 2" x 2 x 3/16" Ø32"          | Optional Tooling |
|       | 2" x 1/4" Ø28"               | Standard Rolls * |
|       | 2" x 1/4" Ø28"               | Standard Rolls   |
|       | 3" x 1 1/4" Ø30"             | Standard Rolls   |
|       | 3" x 1 1/4" Ø30"             | Standard Rolls   |
|       | 1-3/8" Ø24"                  | Optional Rolls * |
|       | 2" Std.10 Ø60"               | Tube/Pipe Rolls  |
|       | 2 1/2 x 16GA Ø408"           | Tube/Pipe Rolls  |
|       | 2" x 2" x 1 1/4" Ø60"        | Standard Rolls * |
|       | 2 1/2" x 2 1/2" x 11 GA Ø60" | Standard Rolls * |

\* On some sections for limited quantities it may be possible to use standard rolls. For optimum results or if production runs are required, it is necessary to use optional rolls and or optional accessories.

**Horizontal  
& Vertical  
Operating  
Positions**



ZM402

**LED  
Readout**

# Simply the Best Benders



## EAGLE BENDING MACHINES MAXIMIZES YOUR ROLLING INVESTMENT


Eagle Bending Machines are tested and ready for Fast Delivery with the largest "off the shelf" tooling supply in the USA!

### Premium Features Available on Eagle/BPR Universal Roll Bending Machines

Large LED's Digital Displays for precision repeatability • Versatile New modular hardened rolls bend more shapes, vertical & horizontal operation  
 Durability Strongest Frames, no castings, hardened shafts on self aligning roller bearings • Productivity Push button controls, mobile consoles, multi-position  
 Auto Repeat Systems • Safety & Ergonomics Lower working heights, wider frames, multiple E-Stops, 24VAC controls, isolating foot pedals eliminate vibration

**Optional Equipment and Versions: Rolls for round tube/pipe/rod special profiles & serial production, Cam Guides for angle leg-in, variable speed drives, BA CNC Controls, Scroll tools & more!**

### EAGLE ROLL BENDING MACHINE SPECIFICATIONS

| MATERIAL  | CP20            | CPS20<br>BA20   | CP30<br>CP30E   | Z402<br>M-H        | CPS35<br>BA35      | CP40<br>M-H2-H<br>BA40 | CPS50<br>BA50      | BA55               | CP60-H          |
|---|-----------------|-----------------|-----------------|--------------------|--------------------|------------------------|--------------------|--------------------|-----------------|
| Flats, Hard      | 1x1/4 Ø8"       | 1x1/4 Ø8"       | 2x3/8 Ø16"      | 2-1/4x3/8 Ø24"     | 2x3/8 Ø14"         | 2-1/4x3/8 Ø20"         | 2-3/4x1/2 Ø20"     | 2-3/4x1/2 Ø20"     | 3-1/4x5/8 Ø32"  |
| Flats, Easy      | 1-3/4x3/8 Ø12"  | 1-3/4x3/8 Ø10"  | 3x5/8 Ø16"      | 4x5/8 Ø16"         | 3-1/2x5/8 Ø16"     | 4x5/8 Ø16"             | 4x5/8 Ø14"         | 4x5/8 Ø14"         | 4-3/4x7/8 Ø26"  |
| Square Bar       | 1/2 Ø6"         | 1/2 Ø5"         | 1-1/8 Ø24"      | 1-3/8 Ø24"         | 1-1/4 Ø16"         | 1-3/8 Ø20"             | 1-1/2 Ø24"         | 1-1/2 Ø24"         | 1-3/4 Ø30"      |
| Angle, Leg-Out   | 3/4x1/8 Ø8"     | 3/4x3/16 Ø8"    | 1-1/2x3/16 Ø16" | 2x3/16 Ø24"        | 1-1/2x1/2 Ø16"     | 2x1/4 Ø24"             | 2-1/4x1/4 Ø30"     | 2-1/4x1/4 Ø30"     | 3x Ø36"         |
| Angle, Leg-In  | 3/4x1/8 Ø10"    | 3/4x3/16 Ø10"   | 1-1/2x3/16 Ø22" | 2x3/16 Ø28"        | 1-1/2x1/4 Ø22"     | 2x1/4 Ø28"             | 2-1/4x1/4 Ø38"     | 2-1/4x1/4 Ø38"     | 2-1/2x5/16 Ø34" |
| Tee, Leg-Out   | 1 Ø8"           | 1 Ø5"           | 2 Ø16"          | 2-1/4 Ø30"         | 2 Ø14"             | 2-1/2 Ø24"             | 2-1/2 Ø20"         | 2-1/2 Ø20"         | 3x5/16 Ø32"     |
| Tee, Leg-In    | 1 Ø10"          | 1 Ø6"           | 2 Ø20"          | 2-1/4 Ø30"         | 2 Ø16"             | 2 Ø24"                 | 2-1/2 Ø20"         | 2-1/2 Ø20"         | 3x5/16 Ø40"     |
| C, Legs-Out    | 1-1/4 Ø10"      | 1-1/4 Ø8"       | 2 Ø12"          | 3 Ø24"             | 2-1/2 Ø18"         | 3 Ø24"                 | 3-3/4 Ø26"         | 3-3/4 Ø26"         | 4-1/2x2 Ø32"    |
| C, Legs-In     | 1-1/4 Ø12"      | 1-1/4 Ø10"      | 2 Ø16"          | 3 Ø30"             | 2-1/2 Ø20"         | 3 Ø30"                 | 3-3/4 Ø30"         | 3-3/4 Ø30"         | 4-1/2x2 Ø36"    |
| Round Bar      | 1/2 Ø5"         | 1/2 Ø4"         | 1-1/4 Ø24"      | 1-3/8 Ø24"         | 1-1/4 Ø16"         | 1-3/8 Ø20"             | 1-1/2 Ø24"         | 1-1/2 Ø24"         | 2 Ø28"          |
| Pipe Sch.40    | 1/2 Ø14"        | 1/2 Ø12"        | 1-1/2 Ø20"      | 1-1/2 Ø24"         | 1-1/2 Ø20"         | 2 Ø40"                 | 2 Ø36"             | 2 Ø36"             | 2-1/2 Ø36"      |
| Round Tube     | 1 Ø16"          | 1 Ø16"          | 2-3/8x1/16 Ø40" | 2-1/2x1/16 Ø24"    | 2-1/2x1/16 Ø30"    | 2-3/4x14Ga Ø60"        | 2-1/2x10Ga Ø34"    | 2-1/2x10Ga Ø34"    | 4x15Ga Ø72"     |
| Square Tube    | 3/4x1/16 Ø12"   | 3/4x1/16 Ø12"   | 1-1/2x1/8 Ø40"  | 2 x12Ga Ø56"       | 1-1/2x1/8 Ø40"     | 2x11Ga Ø48"            | 2-1/4x1/8 Ø50"     | 2-1/4x1/8 Ø50"     | 2-1/2x11Ga Ø48" |
| Rect. Tube     | 1-1/4x3/8x1/16" | 1-1/4x3/8x1/16" | 2x1x0.120"      | 2-1/4x1-1/4x0.120" | 2-1/4x1-1/4x0.120" | 2-1/4x1-1/2x0.120"     | 2-3/4x1-1/2x0.120" | 2-3/4x1-1/2x0.120" | 3x1-1/4x0.120"  |

Machine Version Key: H=Hydraulic Roll Adj. • M=Manual Roll Adj. • R=Horizontal/Vertical Operation • P=Foot Controls • 2V=Dual Speed • REV=Variable Speed • H2=Two Driven Rolls • BA=Full CNC

|                       |             |                 |                  |             |                 |                 |                 |                 |                 |
|-----------------------|-------------|-----------------|------------------|-------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Bending Adjustment    | M           | H               | M                | H-M         | H               | H-M             | H               | H               | H               |
| Driven Rolls          | 2           | 3               | 2                | 2           | 3               | H=3 H2/M=2      | 3               | 3               | 2               |
| Rolling Speed fpm     | 10          | 10              | 10.5             | 15          | 13              | 15              | 16              | 16              | 15              |
| Working Plane         | Vertical    | Vertical        | Vert-Vert/Horiz. | Vert/Horiz. | Vert/Horiz.     | Vert/Horiz.     | Vert/Horiz.     | Vert/Horiz.     | Vert/Horiz.     |
| Repeat Control        | LED Readout | Auto-Repeat-LED | LED Readout      | LED Readout | Auto-Repeat-LED | Auto-Repeat-LED | Auto-Repeat-LED | Auto-Repeat-LED | Auto-Repeat-LED |
| Installed Power HP    | 0.44        | 0.75            | 1.25             | 2.25        | 2.25            | 3.8             | 4.75            | 4.75            | 6.2             |
| Approx. Dimensions    | 13x24x17h   | 13x24x45h       | 27x22x48h        | 28x40x50h   | 27x32x40h       | 28x40x54h       | 33x44x49h       | 33x44x49h       | 38x51x63h       |
| Approx. Ship wt. Lbs. | 240         | 400             | 550              | 870         | 1100            | 1450            | 1650            | 1650            | 2850            |













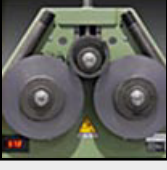
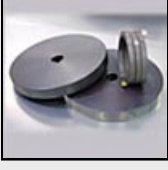

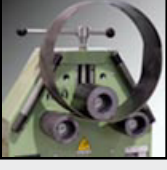

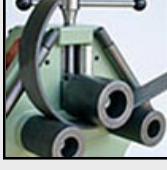

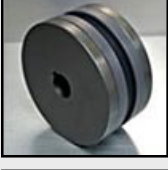




Chart indicates minimum suggested inside bending diameters at maximum section sizes using mild steel • Specifications subject to change/modification without prior notice • Data is Approximate • Contact your authorized dealer for specific capabilities/requirements on shapes and sizes to be bent. Specials rolls and/or tooling may be required for some angle, channel rolling and /or spiral production on some sections • Bending I.D.'s may be limited by predicted material distortion.













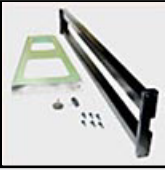















## TOOLING OPTIONS

1,000's of OEM Parts In-Stock Tooling Options including Custom Tools designed for your specific needs.

| Options   | Description   | Model                        | Specs   | In-Stock  |  |  |
|---|---|------------------------------|---|---|--|--|
|    |    | <b>TUBE &amp; PIPE ROLLS</b> | Most Common Tube OD & Pipe Sizes In-Stock. Hardened, Solid Tool Steel. Any Size Can be Made. Specify Smooth or Knurled. Also available in Polymer Material for Delicate Finishes. |    | CP20<br>CP30/Z302<br>CP40/Z402<br>CP60 | In-Stock Common OD Standard Sizes Ready to Deliver   |
|    |    | <b>ANGLE ROLLS</b>           | For best results on Angles Rolled Leg-Out, Required for Leg-In. Tapered Surface w/ Quick Leg Thickness Adjustment. Specify Smooth or Knurled.                                     |    | CP20<br>CP30/Z302<br>CP40/Z402<br>CP60 | Angle Rolls leg-in/out (Pair of Special Tapered Rolls)   |
|    |    | <b>SPACERS &amp; FLANGES</b> | Original Style w/ Leg Thickness Spacers and Backer Flanges  |    | CP20<br>CP30/Z302<br>CP40/Z402<br>CP60 | Set 8 Core Spacers, Smooth: (4 for ea. lower shaft)  |
|   |   | <b>LATERAL GUIDES</b>        | Required for Angles Rolled Leg-In. Guides have Adjustable Cam Rollers, Position Scales and Anti-torsion Supports. Guides Correct Inherent Leg-In Twist.                           |   | CP20<br>CP30/Z302<br>CP40/Z402<br>CP60 | Leg-in (Pair left & right)   |
|  |  | <b>TIGHT DIAMETER ROLLS</b>  | For Small ID Rings with Round & Square Bar. Cutting the Coil Leaves Several Identical Rings. Roll Surfaces Are Knurled for Traction.  |  | CP20<br>CP30/Z302<br>CP40/Z402<br>CP60 | 2 ea. extra large OD rolls (CP30-250mm OD)   |
|  |  | <b>WIDE FLAT ROLLS</b>       | Allow Rolling of Thin, Wide Flat Materials. Set of Three Rolls, Lower Rolls Knurled For Traction. Capacities Vary For Each Machine.   |  | CP20<br>CP30/Z302<br>CP40/Z402<br>CP60 | 3 ea. wide rolls for thin, wide parts (CP30-5.75"x1/8") (CP40-6"x1/8") (CP60-6.25"x1/8")                                       |
|  |  | <b>CAP RAIL SOLUTION A</b>   | For Aluminum & Brass Cap Profiles. Three Fully Contoured Polymer Rolls. Six Steel Shoulder Plates May be Required. Call for Capacities  |  | CP20<br>CP30/Z302<br>CP40/Z402<br>CP60 | 3 ea. Nylon or Delrin Inserts machined to fit cap sample • 2 ea. shaft of 3 Contoured Polymer Inserts (add \$100 if w/channel) |
|  |  | <b>CAP RAIL SOLUTION B</b>   | The Most Economical Cap Solution. 3 Semi-Contoured, Hardened Steel Inserts to Match the Cap. Most Commonly Used With Standard Tooling. Furnished Smooth.                          |  | CP20<br>CP30/Z302<br>CP40/Z402<br>CP60 | Set of 3 Hardened Steel Semi-contoured Spacers to use with your standard shoulder flanges                                      |

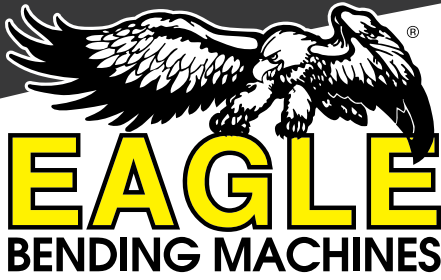
**Our Mission is to expand the versatility and capabilities of your roll bending machine:**

*We make your purchase simple, rapid, economical and seamless. Our CNC machining centers and tooling design experience enhance your production capabilities. Call for information and quotations, regardless of your location.*

| Options   | Description  | Model  | Specs   | In-Stock |
|---|--|--|---|----------|
|    |  <p><b>CAP RAIL SOLUTION C</b><br/>Best Suited For Production Jobs. 3 Fully Contoured, Hardened Steel Rolls Built To Match Your Cap Sample. Furnished Smooth</p>  |  <p>CP20<br/>CP30/Z302<br/>CP40/Z402<br/>CP60</p>   | <p>Set Dedicated Fully Contoured Steel Rolls: Cap Only • Set Dedicated Fully Contoured Steel Rolls: Cap + Channel</p> |          |
|    |  <p><b>SCROLL MAX SYSTEM</b><br/>Deluxe Scroll Set w/ Dual Stage Former, Handle and Adjustable Bar Support. Pull Handle While Forming for Continuous Scrolling.</p>   |  <p>CP20<br/>CP30/Z302<br/>CP40/Z402<br/>CP60</p>   | <p>ATAR SCROLL MAX System: (cap. 3/16" x 1-1/4")</p>  |          |
|    |  <p><b>TWIST MAX SYSTEM</b><br/>Deluxe Bar Twister w/ Rails, Floor Stand, Shaft Collet, Sliding Vice &amp; Multiple Bar Size Inserts. The Most Versatile Choice! Floor Stand &amp; Rails Included.</p>                                  |  <p>CP20<br/>CP30/Z302<br/>CP40/Z402<br/>CP60</p>   | <p>ATRC TWIST MAX KIT:(clamp, 4 chucks, rails, base)</p>  |          |
|   |  <p><b>MAX MOUNTING PLATE</b><br/>Our Twist and/or Scroll Max Tools Require the Mounting Plate. It Is Interchangeable Between Both The Scroll &amp; Twist Max Systems.</p>   |  <p>CP20<br/>CP30/Z302<br/>CP40/Z402<br/>CP60</p>  | <p>ATRC / ATAR MAX Mounting Plate: (required)</p>   |          |
|  |  <p><b>STANDARD SCROLL</b><br/>Economy Scroll Set w/ Dual Stage Former, Simple Stop &amp; Cam Grip Insert. Call for Capacities.</p>   |  <p>CP20<br/>CP30/Z302<br/>CP40/Z402<br/>CP60</p> | <p>Standard Scroll Tool: (without the CB Support)</p>   |          |
|  |  <p><b>STANDARD TWISTER</b><br/>Economy Bar Twister w/ Colet, Vice &amp; 1 Bar Size Insert. Mount The Vice to Your Work Table. (Stand &amp; Rails Not Included)</p>   |  <p>CP20<br/>CP30/Z302<br/>CP40/Z402<br/>CP60</p> | <p>Standard Bar Twist Tool: (clamp + 1 chuck)<br/>• Additional Standard Chuck Sizes: (each bar size)</p>              |          |
|  |  <p><b>ATSC SPIRAL STAIR RAIL</b><br/>Assists in Forming Spiral Rails w/O.D. Tube 2"x 16Ga SS Max. Cap. Includes Pitch Control Unit, Numerical Reference Counter and Contoured Roller. Mounting Plate Required, Order Separately.</p> |  <p>CP20<br/>CP30/Z302<br/>CP40/Z402<br/>CP60</p> | <p>ATSC SPIRAL STAIR Thrust Assembly: (ATSC) 2" OD Tube Max • ATSC SPIRAL STAIR Complete w/Mounting Plate</p>         |          |
|  |  <p><b>"V" GROOVE ROLLS</b><br/>Roll Bar Stock and Square Tube on a 45° angle to Create a Unique Look. Available for all Eagle Models in both Smooth and Knurled Throats. Made of Solid, Hardened, Tool Steel here at EBM, Inc.</p>   |  <p>CP20<br/>CP30/Z302<br/>CP40/Z402<br/>CP60</p> | <p>(Set 3 rolls w/ 45 deg. Throat)</p>  |          |

*Eagle Bending Machines provides standard and special order tooling/accessories for our machines as well as other brands. We ship worldwide. (For pricing, please list the machine model and serial number.)*





### VALUE ADDED SERVICES

- Demonstration Showroom
- Testing / Prototype Facility
- Extrusion Die Consulting
- Diagnostics and Repair Tooling
- Design & Manufacture
- Spare Parts & Service Departments
- Superior Warranties
- Instructional "How-To" Videos
- On Site Training
- Shipping Worldwide

Our Reputation is based upon Solid Customer Satisfaction. Over 8,000 Professional Quality Benders placed in North American Shops since 1993 is a Testament to this Fact.

The Difference is Truly in the Details!

Eagle Bending Machines, Inc. leads the Roll Bending Industry with our Innovative, Professional Grade Section Bending Machines. Regardless of your shop size, Eagle will provide a bender to match your needs and fit your budget.

For over 30 Years, Our Benders have always been built to Superior Performance Standards for Precision, Versatility, and Longevity. Many additional thousands of CP Series Benders have been placed in shops around the globe. The Eagle brand is renowned worldwide.

Our Factory Trained Sales and Service Personnel, Application Engineers, Tooling Designers and support staff form a team with over 100 years of experience for your benefit. Eagle's Testing Facility and CNC Machine Shop produce Custom Rolls and Tooling to accomplish the most demanding roll bending applications. We are Solution Oriented and have an extensive stock of machines-tooling-parts ready to ship.

Eagle machines are rated highest in overall customer value and satisfaction with features and benefits that outperform any other. Units are tested 2 or more times at our facility to insure the highest level of quality control. We supply tooling, accessories and parts for machines placed in service over 30 years ago.

Eagle provides the highest level of Value to Cost and Long Term Return on Investment. Our Products are backed by an UNMATCHED Warranty and Professional Customer Service.

Tour our web site to discover for yourself how our unique features and Attention to Details become added benefits to your business!

[www.eaglebendingmachines.com](http://www.eaglebendingmachines.com) / [sales@eaglebendingmachines.com](mailto:sales@eaglebendingmachines.com)



*"I use only the best tools I can get, not cheap knockoffs"*

We use your machine every day and it really saves us a lot of time.

Thanks again!  
Eddie Paul, President & CEO  
Proto-Tech Machine Engineering Customs by Eddie Paul.

### Eagle Bending Machines is proud to have one of our roll benders chosen for the Falcon Custom Fabrication Shop

Ian Barry's Falcon Motorcycles has skyrocketed to the top of the bike building scene and this is just the beginning!

Falcon builds high end custom bikes so it stands to reason they would choose the best built, long lasting and best selling section bender in the world: our Eagle CP30 roll bender as the newest piece of fabricating equipment for their shop.

Even in tough economic times Eagle Bending Machines rises to the top. Thanks to our loyal customers we've been able to maintain our unprecedented run as THE premier supplier of job shop roll benders in North America for over three decades! Check back soon for even more exciting updates.

Our High quality machines, in-house tooling production, research and development team, and knowledgeable staff have also helped to keep us on top.

**Call Eagle Today for assistance with your roll bending application. We have nearly every machine in-stock and ready for with your tooling choice.**



CP30PRM in Vertical & Horizontal Positions

"We pride ourselves on high quality work created by true craftsmen and artisans. It only makes sense that we buy the highest quality equipment on the market. This led us to a purchase that has paid for itself numerous times. Now, 6 years later our Eagle Bending Machines CP40H has become one of the most important pieces of equipment in our shop. Eagle has continued to be there for all of our application questions and tooling needs over the years since our purchase. Any shop that is considering a roll bender purchase can't afford NOT to buy Eagle!"

James Moseley, Director, Iron Division I Heirloom Stair and Iron, Inc.





